THE TECH

VOL. XXVIII. NO. 80 BOSTON, MASS., MONDAY, MAY 10, 1909 PRICE THREE CENTS

COURSE II THESES TITLES ANNOUNCED

Seniors Now Investigating Various Subjects of Importance

TESTING CONCRETE

Four Men Engaged in Making Tests on Concrete Beams of Unusual Sizes

Of unusual importance is much of the thesis work being done in the mechanical engineering department. Several of the men are at work on tests of large concrete beams, the results of which will be of immense importance. Heretofore engineers have reasoned that large beams will act like small ones, and have based their figures on the tests of small models. The results of these tests will enable computations to be based on figures that are known to be correct. The list of theses follows:

Ayres, R. S.—Investigation of Ventilating in Engineering A.

Belcher, D., Cloudman, H. C.—Investigation of Tensile Strength of Turned and Unturned Malleable Cast Iron.

Bullard, M. L.—Test on Centrifugal Pump.

Cole, M. J.—Investigation on the Ideal Marine Engine for Horse Power and Fuel Consumption at Various Speeds.

Davis, J. F., Hubbard, C. W.—Boiler Test on Turbine Steamer "Harvard."

Fisher, H. C., Young, P. E.—Service Test on Turbine Steamer "Harvard."

Dow, B. W., Towle, E. T.—Comparisons of Belt Drive on Wood and Iron Pulleys with and without "Compo" Cork Inserts.

Ferguson, W. C.—Investigation of Methods of Holding Wire Rope for Testing.

Fick, W. G., Weill, M. K.—A Thermodynamic Study of an S02 Engine.

Gordon, W. S., Weeks, A. T.—Lift and Discharge of Safety Valves.

Hartshorn, D. G., Kyle, C. W.—Investigation of Initial Strain in Iron Castings.

Hartwell, A. E.—Investigation of Effect of Spray Nozzles for Cooling Water.

Heidelburg, F. M.—Effect of Superheated Steam on Different Metals.

Hersey, M. D.—Journal Friction and Carrying Power under Different Conditions of Lubrication..

Inglee, R., Marshall, H. H.—Investigation of an Inertia Governor.

Jacobs, C. D., Keables, A. D.—Investigation of Strength of Timber with Non-uniform Cross-section.

Jones, W. H., Martin, T. DeV.—Experiments on Running Balance.

Kelley, E. F.—Investigation of Strength of Different Lime Mortars.

King, F. J., Rountree, W. J.—Investigation of Repeated Stress in Locomotive Driving Springs.

Latimer, R. C., McClintock, F. S.—Test of Reinforced Concrete Beams of Unusual Depth.

Main, C. R., Mayo, L.—Test on a 750 K. W. Allis Chalmers Parsons Turbine.

Millard, R. W.—Test of Reinforced Concrete Beams of Unusual Depth. (with G. M. Gilkinson, Course I.).

Nickerson, J. W., Smith, R. L.—Test on an Ammonia Compressor Refrigerator Plant.

Peet, A. S.—Investigation of Flow of Steam through Orifice.

Reeds, C., Riefkohl, R. W.—An Investigation of the Effect of Pitch on the Supporting Power of Helical Springs.

Spencer, H. K., Willard, J. A.—An Investigation of the Effect of Water Vapor in Explosive Mixture of an Oil Engine.

Temple, R. B., Thornley, A. E.—Investigation of Stresses in Open Links.

Wallis, G. E., Zahner, R. V.—Critical Speeds of Loaded and Unloaded Shafting.

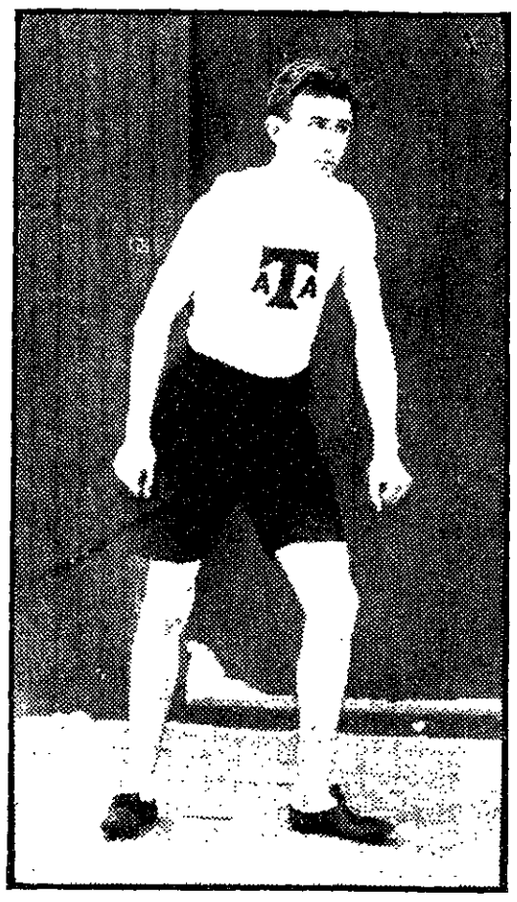
W. D. ALLEN BREAKS INSTITUTE POLE VAULT RECORD IN ANNUAL SPRING TRACK MEET WON BY JUNIORS

Third Year Men Roll Up 43 1-3 Points in Games Marked by Keen Competition—Freshmen Take Second Place Only Three Points Behind—Sophomores Get 39 and Seniors 30 1-3 Tallies

W. C. SALISBURY 1911 TAKES INDIVIDUAL HONORS WITH 13 POINTS

After Crossing the Tape a Winner in Mile Run, H. G. Watkins 1912 Defeats Big Field in Two Mile Event—Rockwell Cup Goes to Captain Carl Gram 1909, Hurd Cup to W. J. Pead 1910 and Batchelder Cup Won by H. G. Watkins 1912

With the result in doubt until the finish of the last event, the junior class was victor in the annual spring track meet last Saturday. Never has there been a closer or more exciting meet held at Tech Field. The score at the end stood 1910, 43 1-3; 1912, 40 1-3; 1911, 39; 1909, 30 1-3. The remarkable showing of this year's entering class was the surprise of the day, the 1912 score of 40 1-3 points being the largest ever made by a freshman class in the spring meet.



P. D. WHITE 1911
Winner of 880 yd. Run

With perfect weather conditions and a large number of entries, several close and exciting races resulted. The individual star of the meet was William Conyne Salisbury 1911, who rolled up a total of thirteen points, capturing first place in the 220 yard dash, second place in the pole vault and 440 yard dash, and third place in the century dash.

A close second to Salisbury's star performance was the fine work of Harold Geoorge Watkins 1912, who won the one mile and two mile events in quick succession. His remarkable performance in the former event won for him the silver cup given by J. L. Batchelder, Jr., 1890.

Easily the most exciting moment of the day was when W. D. Allen 1911 cleared the bar at eleven feet, four and a quarter inches, eclipsing his previous Technology record of 11 feet, 1 1-2 inches, by almost three inches. W. C. Salisbury 1911, easily took second place with a vault of 10 feet, 8 inches, his nearest competitor being H. G. Greenleaf 1912, 9 feet 8 inches.

After a close struggle with A. B. Mason 1910, W. J. Pead, Jr. 1910, captured first place in the high hurdles, thereby winning permanent possession of the Hurd cup for this event. Pead also secured fourth place in the low hurdles.

Capt. Carl Gram won first place in the opening event of the afternoon, the 100 yard dash, closely followed by W. J. Seligman 1911, and W. C. Salisbury 1911. P. D. White 1911, secured fourth place.

H. G. Watkins 1912, created a veritable sensation when he took the lead in the mile run and held it to the finish, winning handily from McCarthy 1909, by a good hundred yards. This feat secured for Watkins the Batchelder cup. In the sprint to the tape R. D. Van Alstine 1911, defeated H. H. Howland, the 1909 star distance man.

The 120 yard hurdles event created more than ordinary interest from the fact that the winner became the proud possessor of the Hurd cup. A close struggle occurred between W. J. Pead, Jr. 1910, and A. B. Mason of the same class, Pead nosing out first place in a final desperate sprint. G. B. Cummings 1910, was third while H. S. Gott 1910, secured the consolation position.
and A. B. Mason of the same class, pead nosing out first place in a finial desperate sprint. G. B. Cummings 1910, was third while H. S. Gott 1910, secured the consolation position.

"Cap" Gram repeated his star work in the quarter mile run, in which but four men started. He crossed the line a winner in 52 4-5 seconds. W. C. Salisbury was a close second, while M. A. Oettinger 1912, beat J. I. Murray 1912, in the last five yards for the third ribbon.

A triple tie resulted in the high jump, R. H. Allen 1909, E. Stuart 1910, and P. W. Darymple 1912, being the "triplets." In the jump off for the medal, Allen won, with second going to Stuart and third to Dalrymple. C. W. Wilson 1910, of the gym team was fourth.

P. D. White 1911, led the field for the entire distance in the half mile run and crossed the tape twenty yards in advance of E. M. Potter 1910, who secured second pace. C. P. Eldred, captain of the sophomore cross-country team was third and W. S. Davis 1910, was the fourth man.

O. V. Chamberlain 1910, put the 16 lb shot 36 feet, 5 inches thereby winning first place. H. S. Gott, ex-captain of the gym team was second with a put of 34 feet, 3 inches. D. F. Benbow 1912, was third and J. L. Bray 1912, fourth.

Although the distance in the broad jump was short, the contest was very close. Dick Gould 1911, won with a jump of 18 feet 9 inches. Becker 1912 made a good second with 18 feet 8 inches, and was followed by Gott 1910, and Fernstrom 1910, with jumps of 18 feet 6 3-4 inches and 18 feet 3 inches.

Nisbet 1909, had no trouble in taking the discus throw by putting the missile out 95 feet 6 inches. The other places were taken in by Ruby 1912, Chamberlin 1910, and E. Stuart 1910. The hammer throw went to Ruby, with a performance of 98 feet 7 inches and he was followed by Bray and Nisbet, who were the only other competitors in this event.

The summary:

100-yard dash—Won by C. W. Grain 1909; W. J. Seligman 1911, second; W. C. Salisbury 1911, third; P. D. White 1911, fourth. Time 10 4-5s.

220-yard dash—Won by W. C. Salisbury 1911; W. J. Seligman 1911, second; S. C. Reed 1912, third; K. D. Fernstrom 1910, fourth. Time 24 2-5s.

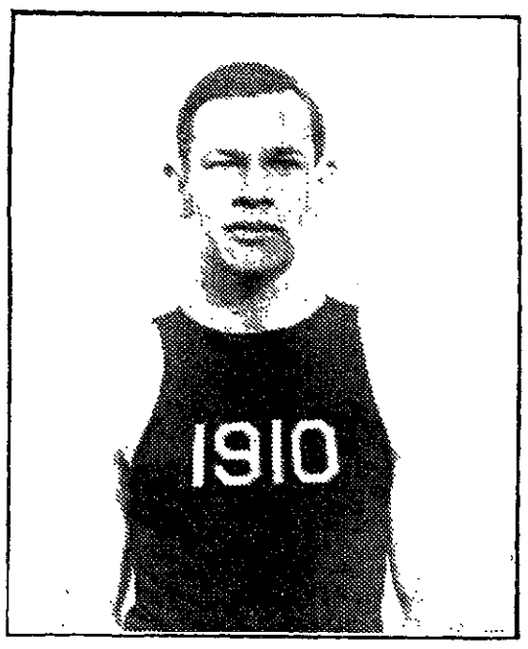
440-yard dash—Won by C. W. Grain 1909; W. C. Salisbury 1911, second; M. A. Oettinger 1912, third; J. I. Murray 1912, fourth. Time 52 4-5s.

880-yard run—Won by P. D. White 1911; E. M. Potter 1910, second; C. P. Eldred 1911, third; W. S. Davis 1910, fourth. Time 2m 6 2-5s.

Mile run—Won by H. G. Watkins 1912; J. F. McCarthy 1909, second; R. D. Van Alstine 1911, third; H. H. Howland 1909, fourth. Time 4m 41 2-5s.

Two-mile run—Won by H. G. Watkins 1912; H. H. Howland 1909, second; C. H. Morrill 1912, third; J. N. Stephenson 1909, fourth.

120 hurdles—Won by W. J. Pead, Jr., 1910; A. B. Mason 1910, second; G. B. Cummings 1910, third; H. S. Gott 1910, fourth. Time 17 2-5s.



G. B. CUMMINGS 1910
Winner of 220 yd. Hurdles

220 hurdles—Won by G. B. Cummings 1910; A. B. Mason 1910 second; R. H. Allen 1909, third; J. Pead, Jr., 1910, fourth. Time 28 2-5s.

High jump—Tie between R. H. Allen 1909, E. Stuart 1910, and P. W. Dalrymple 1912; C. W. Wilson 1910, fourth. Height 5 ft. 5 1-2 in.

Broad jump—Won by R. H. Gould 1911; J. S. Becker, Jr., 1912, second; H. S. Gott 1910, third; K. D. Fern-

(Continued on page 2.)

CLEOFAN NOMINATIONS

Next Year's Officers—Seven Members Finish This Year

Miss Flora Augusta Johnson 1910, of Newtonville, was the nominee for president of Cleofan for the next year, put up at the last meeting of the society held in the Margaret Cheeney Reading room.

The nominating committee, made up of Miss Adelaide M. Abell 1909, Miss Helen M. Longyear 1909, and Miss Rebecca H. Thompson 1909, also recommended Miss Florence H. Luscomb 1909, as vice-president, Miss Margaret A.

(Continued on page 3.)

CALENDAR

MONDAY, MAY 10.

3:00 P. M.—Track work at Field.

TUESDAY, MAY 11.

4:30—Class Day Committee, 11 Pierce.

6:15—E. H. S. Club at the Technology Club, 83 Newbury St.

WEDNESDAY, MAY 12.

5:15—Union Dining Room Committee meets.

6:30—Mining Engineering Society dines at the Lombardy Inn.

6:30—Chemical Society dinner at the Union.

THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act. of Congress of March 3, 1879.

Editorial Staff.

H. I. Pearl 1910 — *Editor-in-Chief*
R. H. Ranger 1911 — *Managing Editor*
W. D. Green 1909 — *Societies Editor*
H. M. Davis 1911 — *Institute Editor*
J. N. Stephenson 1909 — *Athletic Editor*

G. B. Forristall 1911 — *Business Manager*
N. DeForest 1911 — *Asst. Business Manager*
D. N. Frazier 1911 — *Circulation Manager*

Monday Staff

O. B. Denison 1911 — *Associate Editor*
W. J. Seligman 1911, G. E. Hodge 1911 — *News*
W. O. Whitney 1911 — *Business*

All communications regarding advertisements should be addressed to the Business Manager. Regarding subscriptions address the Circulation Manager.

Subscriptions within the Boston Postal District and outside of United States must be accompanied by postage at the rate of one cent for each copy.

Subscription - - - $1.50 per year in advance. Single Copies 3 Cents.

Printed by Old Colony Press, Boston.

Monday, May 10, 1909

The Tech takes pleasure in announcing the appointments of Nathaniel McLean Sage 1912, and Louis Sebastian Walsh 1912, to the news staff, and of Frederick William Barker, Jr., 1912, to the business staff.

As usual, the athletes did some excellent work at the inter-class meet, and as usual, the crowd was miserably small.

If Tech should win the intercollegiates, or even get second place, there are a lot of people around the Institute whose chests would swell out, and their crow would be loud and lusty. But when it comes to supporting the team by their presence, even at the cost of only a quarter, they conveniently have another engagement.

The most critical period in the development of the track team is just at this time, and the class meet was postponed till Saturday so as to bring out the greatest possible interest. Some have responded nobly, but if the general attitude of the Institute in athletics on the part of both those who are and those who are not athletes, is indicated by the attendance at the spring meet, then we may soon expect to hear that the spirit of Technology is dead. If athletics, the largest undergraduate activity, fails to get a response from Institute men, what will be the fate of the others? The question is put to you. Think about it.

FOURTH ANNUAL DINNER

Harvard-Tufts High School Men to be at Mechanic Arts Dinner

Wednesday night the Mechanic Arts Club will hold its fourth annual dinner at the Union. Dr. C. W. Parmenter, headmaster of the school, Mr. Herbert S. Weaver, headmaster of the Girl's High School of Practical Arts, Charles W. Reed, junior master of Mechanic Arts, and A. L. Rafter, supervisor of Mechanic Arts, will speak. The M. I. T. Orchestra will furnish music. Mechanic Arts men from Harvard and Tufts and the fourth year class at the school have been invited and from present indications over thirty of them will be on hand. A goodly percentage of the members of the Club are also expected to attend.

Tickets should be procured at once from H. K. Spencer 1909, H. P. Wasserboehr 1910, H. M. Davis 1911, or H. O. Maxwell 1912.

SPRING MEET

(Continued from page 1.)

strom 1910, fourth. Distance 18 ft. 9 in.

Pole vault—Won by W. D. Allen 1911; W. C. Salisbury 1911, second; H. G. Greenleaf 1912, third; E. S. Mangan 1912, fourth. Height 11 ft. 4 1-4 in. (New record.)

Shot put—Won by O. V. Chamberlin 1910; H. S. Gott 1910, second; D. F. Benbow 1912, third; J. L. Bray 1912, fourth. Distance 36 ft. 5 in.

Hammer throw—Won by W. M. Ruby 1912; J. L. Bray 1912, second; L. D. Nisbet 1909, third. Distance 98 ft. 7 in.

Discus—Won by L. D. Nisbet 1909; W. M. Ruby 1912, second; O. V. Chamberlin 1910, third; E. Stuart 1910, fourth. Distance 95 ft. 7 in.

POINT SUMMARY.

	1909	1910	1911	1912
100-yard dash	5	0	6	0
220-yard dash	0	1	8	2
440-yard dash	5	0	3	3
880-yard run	0	4	7	0
Mile run	4	0	2	5
Two-mile run	4	0	0	7
120-yard hurdles	0	11	0	0
220-yard hurdles	2	9	0	0
High jump	3 1-3	4 1-3	0	3 1-3
Broad jump	0	3	5	3
Pole vault	0	0	8	3
Shot put	0	8	0	3
Hammer throw	2	0	0	8
Discus throw	5	3	0	3
Totals	30 1-3	43 1-3	39	40 1-3

The officials were: Refereee, Major Frank H. Briggs 1881. Judges, Dean Alfred E. Burton, J. L. Batchelder, Jr., 1890, Benjamin Hurd 1896, Dr. J. Arnold Rockwell 1896, Harry A. Rapelye, 1908, and Henry Bruce. Starter, Thomas McNamara. Timers, Frank Kanaly and Ridsdale Ellis 1909. Announcer, J. N. Stephenson 1909.

MINING ENG. SOCIETY

Dinner to be Held Wednesday 6.30 Talks by Facutly Members

The annual dinner of the Mining Engineering Society will be held at Lombardy Inn Wednesday, May 12, at 6: 30

Professors Richards, Warren, Locke, Bugbee and Hofman of the faculty are expected to be present and give short talks. Prof. Lodge, formerly of the Mining Engineering Department, will be present and speak.

Mr. Edmund Billings of the Boston Civic League, who was sent over to Messina at the time of the earthquake there, to manage the Massachusetts fund, will speak on the earthquake, probably from a geological standpoint.

A most interesting and enjoyable time is expected. All members are urged to be present.

HOW THE CLUBS STAND

AMERICAN LEAGUE.

	P.C.
Detroit	.737
New York	.611
BOSTON	.556
Philadelphia	.500
Chicago	.471
Cleveland	.471
Washington	.313
St. Louis	.294

NATIONAL LEAGUE.

	P.C.
Pittsburg	.650
Philadelphia	.625
BOSTON	.588
Chicago	.571
Cincinnati	.435
Brooklyn	.412
New York	.373
St. Louis	.364

TECH TOG SHOP

SPRING OPENING

Gloves, Neckwear, Shirts, Caps, Derby Hats, Umbrellas, Fancy Vests, Rain Coats, New Underwear.

BOTTOM PRICES

First Class Laundry

RUDOLF

484 BOYLSTON ST., opp. Rogers Bldg.

THE RED AND GRAY STORE

C. F. HOVEY & CO.

Call attention to their Complete Line of

Men's Furnishing Goods.

CUSTOM MADE SHIRTS A SPECIALTY.

33 SUMMER ST , - BOSTON.

FOWNES GLOVES

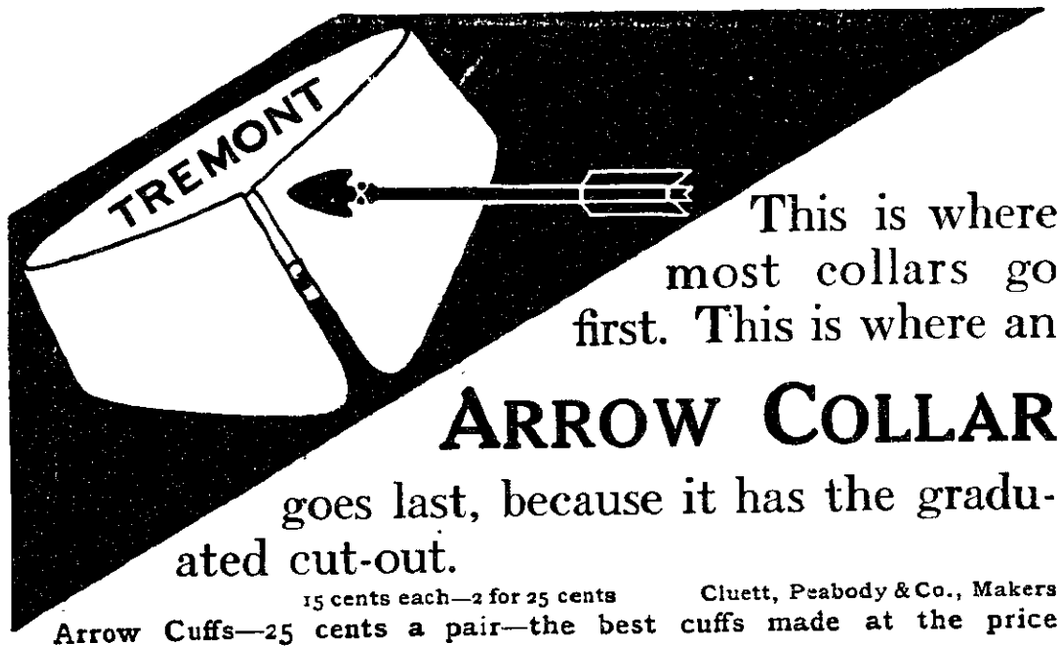
win Fashion's races "hands down"

Miss M. F. Fisk

THE RED GLOVE SHOP

322 Boylston St., opp. Arlington

is showing a handsome shade in men's chamois gloves at $1.50 a pair. Other makes at this price are Fownes and Dent's in the popular cape leather in handsome shades of tan.



This is where most collars go first. This is where an

ARROW COLLAR

goes last, because it has the graduated cut-out.

15 cents each—2 for 25 cents — Cluett, Peabody & Co., Makers

Arrow Cuffs—25 cents a pair—the best cuffs made at the price

SMULLEN & CO.

TAILORS

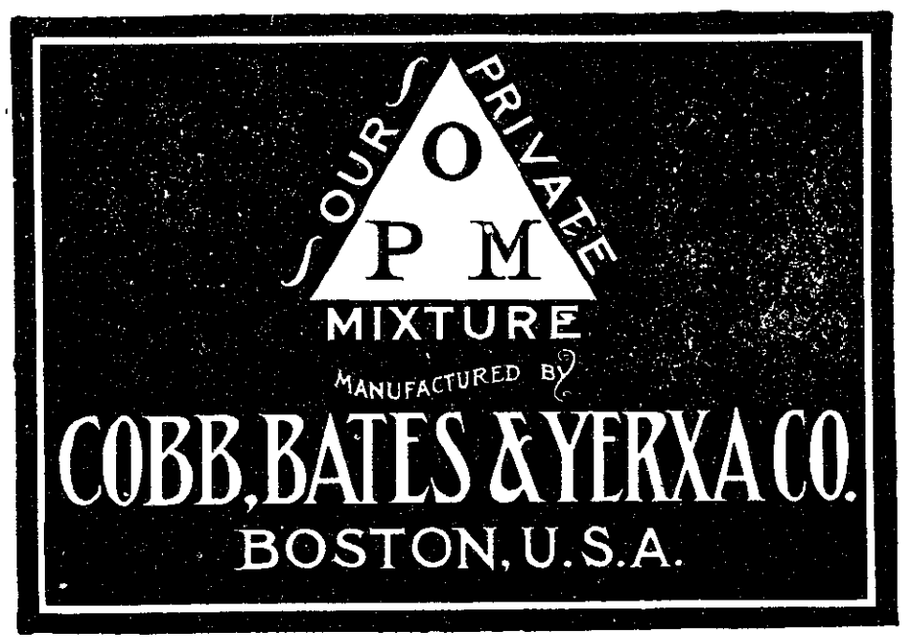
51 SUMMER ST., cor. CHAUNCY ST.

HIGHEST GRADE POPULAR PRICES

J. J. SMULLEN — G. H. LANE
A. D. MURRAY — E. D. CROSS

would be glad to submit samples and prices on request.

THE PERFECT PIPE TOBACCO



Why is it perfect? BECAUSE it is mild, fragrant, slow burning and does not bite the tongue.

PACKED IN 4 OZ., 8 OZ. AND 16 OZ. TINS

A College Retreat

Mathematicians, Scientists, Researchers, Chemists, Architects, Free Hand Artists, Mining, Civil, Mechanical, Electrical Engineers, Bacteriologists, etc., etc.

GENTLEMEN LOOK OUT FOR YOUR HEALTH.

You need a safety valve! A brain storm or a brain explosion is liable to occur at any time. You will find the needed relaxation, and relief at the

HOTEL EPICURE

In the vineyard, the genuine Bohemian Cafe with orchestra, grand opera and popular song soloists, with a stein of good beer, or a cold bottle and a square meal, where you will forget all about science and enjoy yourself for a while on earth, as a human being.

Private dinner parties of from five to one hundred guests catered to in our private dining rooms.

HOTEL EPICURE, the only typical French Hotel in Boston

27-33 HAYWARD PLACE

The Little Corner — HENRI E. GENOUD, *Manager*

Business Directory

Every Loyal Technology Student is urged to patronize these advertisers and to mention THE TECH when doing so.

BARBERS —
Rowan & Curry
M. J. Hannigan

BOOKBINDERS —
Alexander Moore
Hub Book Binding & Supply Co.

BOWLING ALLEYS —
Technology Bowling Headquarters

CANDIES —
Apollo Chocolates
Huyler

CATERERS —
T. D. Cook
Tech Union Dining Room

DRUGGISTS —
T. Metcalf

ENGINEERS —
Stone & Webster

ELEVATORS —
Otis Elevator Co.

FLORIST —
N. Fishelson
Thomas Galvin, Inc.

GLOVES —
Miss Fiske
Fowne's

HATTERS —
Chamberlain
Hall & Hancock
Sphinx

HABERDASHERS —
C. F. Hovey
Burt's Men's Shop
Cluett Peabody Co.
Rudolf
Chamberlain
Paris Garters

HOTELS —
Brunswick
Epicure

JEWELERS —
Bent & Bush

LUNCH ROOMS —
Union Dining Room
Copley Lunch
Hewitt's Lunch

PRINTERS —
George H. Ellis Co.
Old Colony Press

PHOTOGRAPHER —
Marceau

RUBBER STAMPS —
Union Stamp Works

SHOES —
McMorrow
Henry Siegel Co.
H. H Tuttle Co.
Emerson Shoe Shops

SMOKERS SUPPLIES —
The Cage
Cobb, Bates & Yerxa
Fatima Cigarettes

STUDENT SUPPLIES —
Maclachlan
Higgins Ink
J. N. Southwell
Faber Pencils
Samuel Ward Co.
Old Corner Bookstore

TAILORS —
Henry Siegel Co.
Morse & Henderson
Smullen & Co
C. F. Patten & Co.
A. Shuman & Co.

TYPEWRITERS —
General Typewriter Ex.

CLEOFAN NOMINATIONS

(Continued from page 1.)

Fulton 1911, as secretary and Miss Elizabeth Babcock 1909, as treasurer. Miss Luscomb declined to accept the nomination for vice-president, leaving the position open for a further choice.

An amendment to the society's constitution relative to abandoning the graduate assessment to meet the expenses of the Junior Week reception was undertaken. Miss Johnson is the chairman of the committee appointed to investigate the matter.

The Society will lose seven members by graduation in June. Miss Mabel K. Babcock 1908, this year's president, has taken post-graduate work in architecture for the S. M. degree. Before coming to the Institute, she received an A. B. at Northwestern University.

Miss Helen M. Longyear, the present vice-president, will receive her S. B. in architecture. She was secretary of the class of 1909 in her sophomore year, and art editor of Technique 1909. She also served on the 1909 Technique electoral committee, and has won numerous mentions in the Institute architectural competitions.

Miss Rebecca K. Thompson, the secretary, is also a candidate for a degree in architecture, with several mentions to her credit.

Miss Florence H. Luscomb, also 1909, course IV, served as a member of the 1909 Technique electoral committee, and has held the offices of treasurer and vice-president of the Society.

Miss Lahvesia P. C. Packwood started with an earlier class, and for two years took course II. She was unable to continue that work, however, and after a year's absence she returned to the Institute, and is now about to graduate in course IV. She was treasurer of the Cleofan last year.

Miss Elizabeth B. Babcock, the treasurer, will receive her S. B. in chemistry. Miss Lila H. Swift 1908, has been pursuing a special course in architecture, and Miss Adelaide M. Abell, a graduate of Wellesley, has taken special courses in biology.

Several of the young women about to graduate expect to return for advanced work next year.

E. H. S. CLUB DINNER

To be Held at Technology Club— Last Dinner of Season

Tomorrow evening at 6:15 the final dinner of the English High School Club will take place at the Technology Club, 83 Newbury Street. The affair promises to be one of the biggest of its kind, and extensive preparations have been made. The price will be seventy-five cents per plate.

Since its new organization, the club has proved to be a great success, and members have shown a manifest increase in interest. It is hoped that everybody that has ever been connected with English High School will be present, as this is the last dinner of the season, and promises to be by far the best.

Sydney A. Malcolm 1910, president of the club, will be toastmaster. Among the speakers will be Mr. John F. Casey, headmaster of the English High School, and Mr. Charles P. Lebon, and Mr. James E. Thomas, masters at the same school. Other well-known guests will be present.

The executive committee of the club desires the names of all those who expect to attend. Any suggestions will be received by the secretary of the organization.

A new calendar has been proposed at Cornell which eliminates all vacations except the Christmas recess.

TECH BOYS TAKE NOTICE

TUTTLE'S Shoe Styles for the 1909 Spring Season are new and correct. Our Strong Lines are $5.00 & $6.00

H. H. TUTTLE CO. 159 TREMONT ST.

NOTE: 10 PER CENT CASH DISCOUNT TO TECH STUDENTS

OTIS ELEVATOR COMPANY
53 State Street, BOSTON
Electric and Hydraulic Elevators
ESCALATORS (Moving Stairways)

ROWAN & CURRY
"The Tech Barbers"
FORMERLY IN THE WESTMINSTER HOTEL
Now opened in the new Chauncey Hall Building on Boylston St. opp. Copley Sq.

"THE LITTLE PLACE 'ROUND THE CORNER"
COPLEY LUNCH
QUICK SERVICE

T. J. SOUTHWELL
Stationer and Newsdealer
Circulating Library Laundry Agency
Ladies' and Gentlemen's Furnishings
66 HUNTINGTON AVENUE, BOSTON
Near cor. of Irvington Street

PHONE, 21761 BACK BAY
HEWETT'S LUNCH FOR LADIES AND GENTLEMEN
OPENED FROM 6 A.M. TO 12 P.M.
ALL HOME MADE PASTRY
196 Dartmouth St, Boston, Mass.

M. J. HANNIGAN
formerly of Hotel Lenox has leased The Tech Barber Shop, Hotel Westminster. Special attention paid to students. All Haircuts 25c.

HERRICK TICKETS ALL THEATRES
COPLEY SQUARE
Telephones 2329, 2330 and 2331 Back Bay

McMORROW
College Shoes for College Men
238 Washington Street, Boston, Mass.
OPPOSITE YOUNG'S HOTEL

"THE GIRLS ARE FOND OF THESE"
Tech Emblems
Greatest Variety
Lowest Prices
BENT & BUSH
15 SCHOOL ST. BOSTON, MASS.

GEO. H. ELLIS CO
Printers
No. 272 CONGRESS STREET
BOSTON, MASS.
'Phone, 1549

MORSE & HENDERSON
Tailors
18 BOYLSTON ST. Rooms 14-15
Telephone Oxford 99 BOSTON
OUR FABRICS for SPRING and SUMMER are ready for your inspection.
SPECIAL DISCOUNT TO TECH MEN

HIGGINS'
Drawing-Inks
Eternal Writing-Ink
Engrossing-Ink
Taurine Mucilage
Photo-Mounter
Drawing-Board Paste
Liquid Paste
Office Paste
Vegetable Glue, Etc.

Are the Finest and Best Inks and Adhesives. Emancipate yourself from the use of corrosive and ill-smelling inks and adhesives and adopt the *Higgins Inks and Adhesives.* They will be a revelation to you, they are so sweet, clean, and well put up.
At Dealers Generally.
CHAS. M. HIGGINS & CO., Mfgrs.
Branches: Chicago, London
271 Ninth Street, Brooklyn, N.Y.

BOSTON TRUNK DEPOT
Opposite the Touraine 207 Tremont St.
Is centrally located and carries an extensive line of Leather Goods, at prices that defy criticism.
TRUNKS, from an ordinary packing trunk, to a high grade wardrobe.
Traveling Bags, Suit Cases and Kit Bags.
A Complete line of all the Popular Leather Goods.
We Manufacture and Repair
10 PER CENT DISCOUNT TO TECH STUDENTS

The Apollo
"The Chocolates that are different."
ON SALE AT THE CAGE

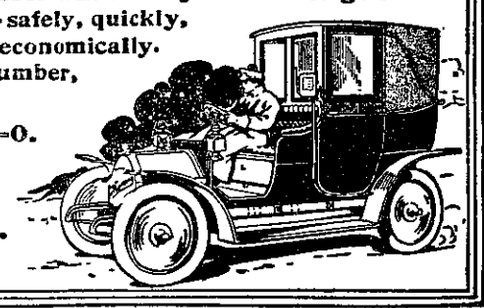
THE OLD CORNER BOOKSTORE
Headquarters for all
Student Text Books
27 & 29 BROMFIELD STREET
BOSTON
TEL. MAIN 4706

Thomas

TAKE A TAXICAB
Call OXFORD 3600

So easy to remember whenever you want to go there and back again—safely, quickly, comfortably and economically. Remember the number,
Oxford
Three-Six-Double-O.

Look for this name on the radiator, it signifies perfect service.



TAXIMOTOR CAB COMPANY
Motor Mart, Entrance 87 Church St. Park Sq.
Harvard Stand—Tel. Cambridge 144

STONE & WEBSTER ENGINEERING CORPORATION
CONSTRUCTING ENGINEERS

DWIGHT P. ROBINSON.....*President and General Manager*
HOWARD L. ROGERS.....*Vice-President and Treasurer*
GEORGE O. MUHLFELD.....*Construction Manager*
WILLIAM N. PATTEN.....*Engineering Manager*
THORNDIKE N. ENDICOTT.....*Purchasing Agent*

147 MILK STREET - - BOSTON, MASSACHUSETTS

UNION DINING ROOM
MONDAY, MAY 10 - SPECIAL SUPPER

ENGLISH BEEF SOUP

VEAL CUTLET, BREADED,
TOMATO SAUCE

FRENCH FRIED POTATOES
BUTTER BEANS

PIE or ICE CREAM

COFFEE, COCOA or MILK

25 Cents

NEW YORK STATE CLUB

Dinner at the Union—Akerly 1910 Elected President

The New York State Club held its last meeting and dinner of the year at the Union Friday evening. Following the dinner, officers were elected for next year as follows: President, H. E. Akerly 1910, of Rochester; Vice-president, W. E. Haugaard 1910, of Richmmond Hill; Secretary, H. E. Fowler 1910, oof Rochester; Treasurer, H. S. Benson 1912, of Syracuse; Executive Committee, J. M. Fitzwater 1910, of Penn Yan and H. S. Cleverdon 1910, of New York City.

FINAL MATCH OF YEAR

A. M. Sussman Defeats Tech Chess Players by Easy Majority

The M. I. T. Chess Club won three and lost eleven games to A. M. Sussman in the last match of the year, at the Union last Saturday. A blindfold game was attempted, but the referee made an error in calling the moves to Mr. Sussman and the game was discontinued.

S. L. Mylchreest 1910, E. S. Anderson 1911, and S. E. Bates 1910, won their games.

The following men lost:

L. W. Greely 1910, S. C. Neff 1912, W. Everett 1908, R. V. Roche 1911, S. M. Schmidt 1911, A. H. Kaufman 1911, H. P. Trevithick 1909, L. Rosenstein 1910, J. Appelquest 1912, R. L. Devine 1912, M. Kohn 1912.

The score: Tech 3, Sussman 11.

NOTICES

The complete schedu'e of final examinations will be printed in Wednesday's issue.

TECHNIQUE 1910—Copies may be obtained at Cage. Price $2.00. J7

BATTALION GOVERNMENT INSPECTION.—The government inspector will inspect the battalion Wednesday, May 12. All cadets must wear clean white gloves. F3

Seats for the Tech section in the grandstand at the N. E. I. A. A. meet May 22nd, are on sale at the Union daily from 1 to 2 P. M. Price $1.50.

CHEMICAL SOCIETY.—The annual banquet, with election of officers, will be held in the Union Wednesday at 6:30 P. M. The dinner committee has been working hard, and a most enjoyable time is assured. Tickets may be obtained at $1.00 each from C. H. Pope 1909, C. S. Robinson 1909, or George Lunt 1910.

Huyler's
Candies
Soda

146 TREMONT ST.
414 BOYLSTON ST.
139 SUMMER ST.

SPECIAL NOTICE

We wish all students to know that the clothing which we furnish, made in our workshops on the premises, is always the best that can be produced and will be found up to date in style, fabric and fit. We already have the patronage of many "Tech" students; we wish to see more in our store and extend an invitation to all to visit us, examine our merchandise, and step into the elevator and go through the workshops and see the clothing in process of manufacture.

Macullar Parker Co.
400 WASHINGTON ST.

STATIONERY

TRADE MARK WARD'S STATIONERY BOSTON

FRATERNITY STATIONERY
ENGRAVED INVITATIONS
RECEPTION AND VISITING CARDS
BANQUET MENUS
COATS OF ARMS, CRESTS & MONOGRAMS
STUDENT'S SUPPLIES

WARD'S SAMUEL WARD CO.
51-63 Franklin St., BOSTON

Tech Drug Store

Chemicals, Reagents and Acids
AT SPECIAL PRICES

Sachets, Perfumes, Toilet Articles

New Tech Seal Cigarettes

All Popular Brands of Cigars

T. METCALF CO.
COPLEY SQUARE
39 TREMONT STREET

MAKER TO WEARER
THE SPHINX
$2.00 HAT
412 WASHINGTON ST. BOSTON
SPRING STYLES

INFALLIBLE CORRECTNESS OF GRADING.
UNEQUALLED FOR PURITY, SMOOTHNESS, DURABILITY.
"CASCELL"
DRAWING PENCILS IN 16 DEGREES, FROM 6B TO 8H.
THE FINEST IN EXISTENCE.
A. W. FABER, 51 DICKERSON ST., NEWARK, N. J.

Thos. F. Galvin

Florist

Boylston and Fairfield Streets

15 Per Cent Discount to Tech Students

COLONIAL THEATRE
NOW PLAYING
The Quality Musical Play
"A STUBBORN CINDERELLA"
with Jim Barrymore and Sallie Fisher

BOOKBINDING
IN EVERY STYLE
ALEX. MOORE
11 Hamilton Place, opp. Park St. Church

UNION STAMP WORKS
MANUFACTURERS OF
RUBBER STAMPS
175 Washington St., Boston, Mass.
TELEPHONE 1738 MAIN

SYMPHONY HALL
POPS
TONIGHT 8 to 11
55—ORCHESTRA—55
GUSTAV STRUBE
Conductor
Light Refreshments
Admission, floor and 2nd balcony 25c. Reserved seats, 1st balcony 50c. Reserved table seats, floor 75c. Tel. B.B. 1492.

T. D. COOK & CO.
Specialty Caterers
88 BOYLSTON STREET
Afternoon Teas & Receptions
and Class Day Spreads
& & ESTIMATES GIVEN & &

HUB BOOK BINDING AND SUPPLY CO.
Frank H. Little, Manager
(43 Years on Cornhill)
BOOK BINDERS
Repairing and Rebinding
45 CORNHILL, - BOSTON

BURT'S MEN'S SHOP
Exclusive Haberdasher
43 BOYLSTON STREET, BOSTON

TEL. 1597-1 B.B.
MISS SAWYER
MULTIGRAPHING
TYPEWRITING
486 BOYLSTON ST., Opp. Rogers Bldg.

UP TO THE MINUTE
SPRING STYLES OF
EMERSON SHOES NOW READY
10 PER CENT DISCOUNT TO TECH STUDENTS
UPON PRESENTATION OF REGISTRATION CARD
BOSTON STORES
Cor. Washington and Water Sts. Court and Hanover Sts.
and 185 Summer St., Dewey Sq.